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MIROFLEX

Combined Press and Reflex Camera

The Miroflex as a Reflex Camera

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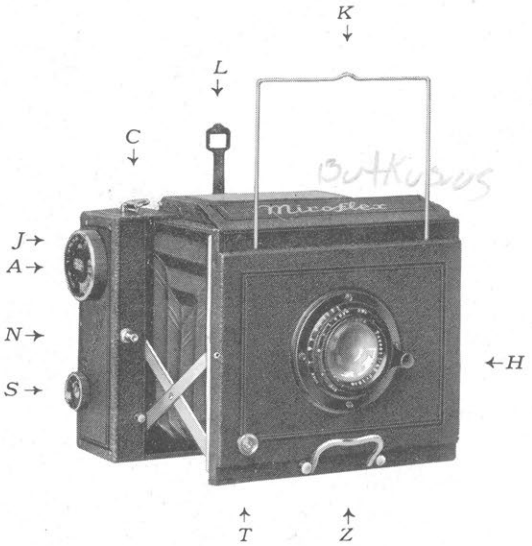
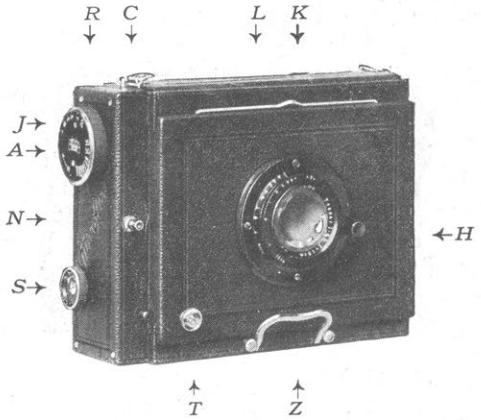


The Miroflex as Sport Camera

A = Button for setting (arming) the shutter
C = Catch for the lazy tongs
H = Focussing lever of the lens mount
J = Speed indicator
K = Wire frame finder (Iconometer)



Miroflex closed

L = Sight belonging to this finder
N = Shutter release
T = Screw for the cross front movement
R = Ring regulating the speeds
S = Button to arm the mirror
Z = Handle to draw the front forward

The Miroflex
a Combination Sport and Reflex Camera

In the *Miroflex* all the special features of a Sport and Press Camera are retained and, with a single movement of the hand, the advantages of a Reflex camera are available.

This unique combination has great significance for the amateur. In the *Miroflex* he has an instrument which is truthfully a "Universal" camera with which he is fully equipped for any and every emergency. Sport, Street, Marine, Children, Animals or Landscape subjects are all equally within his capacity.

We now give a brief description of the essential features of the two camera types embodied in the *Miroflex*.

a) As Sport Camera

By a single pull on the handle beneath the lens panel the camera is extended to the "Infinity" check and is immediately ready for use. The lens panel is held perfectly parallel with the plate by the absolutely rigid "lazy tongs". By means of the simple spiral focussing lens mount the camera can be focussed for distance while it is still closed. Speed regulation of the shutter is simple and consists of merely pulling out the regulating knob and turning it according to scale.

Without further manipulation any speed from $^1/_3$ to $^1/_{2000}$ second can be secured.

Should clouds impair the light at the last moment, a longer exposure can be given by increasing the width of the slit in the shutter blind although the shutter is already set. The perfectly vibrationless movement of the shutter operated by the wheel brake,

uniformly reliable in Heat, Cold or Damp

gives accuracy and surety to the exposure. The lens-panel has a horizontal adjustment and permits the use of a *Tele-Tessar f/6.3, 25 cm focus, in spiral-focussing mount.*

The ground glass focussing screen can be used by pressing a button, without altering the shutter setting. Dark slides or changing box can be employed with equal facility. The practically designed wireframe viewfinder with peep sight permits rapid viewing and following of moving objects.

b) As Reflex Camera See illustration on title page

The *Miroflex* when closed is not larger than an ordinary Press Camera. By a single pull on the handle the camera is extended to the "Infinity" check ready for use. The viewing hood springs open automatically on pressing a button and when not in use is easily folded away. The reflex mirror is coordinated with the Focal plane Shutter; it allows the most accurate observation of the picture, which it gives beautifully clear and sharp, and can be easily removed for cleaning or replacement. For sharp focussing from a tripod the picture is viewed on the ground glass focussing screen in the rear panel of the camera in the ordinary manner. Near focussing is obtained by the well known spiral focussing lens mount. The camera body is built entirely of Aluminium alloy of great strength and is covered with fine quality black Morocco leather. Hanging comfortably from the neck strap, the *Miroflex* is easily and accurately operated, since the subject can be clearly seen and focussed up to the very moment of exposure.

INSTRUCTIONS FOR USE

Fig. 1
The Miroflex as Sport and Press Camera ready for work

Opening the camera

Insert two fingers of the right hand into the grip *Z* on the front beneath the lens-panel and pull the front forward till the clips snap into position (Fig. 2). The ca-

mera is now correctly focused for the distance which is indicated by the movable pointer of the focussing

Fig. 2
The Miroflex as a Reflex Camera. Opening the camera

device *(H)* and when the wire frame finder *K* and peep sight *L* are raised, it is ready for work (Fig. 1).

When the *Miroflex* is to be used as a Reflex camera it must be hung around the neck by means of the

leather strap and extended in the same way as mentioned above (Fig. 2). Now press with the index finger of the right hand on the button at the right of the focussing

Fig. 3 Raising the Hood

hood (Fig. 3) and the hood will spring up and open automatically. The Mirror is set in position by firmly turning the knob **S** beneath the shutter winding ring in the direction of the arrow.

When the shutter is released by a pressure on pin *N* or the camera closed (pressure on pin *C*) the mirror returns automatically to its normal position. The focussing hood

Fig. 4 Fine focussing and exposure whilst watching the picture

must only be opened when the camera is fully extended. If the camera is not fully extended, pins *N* or *C* or button *S* will not work and you must try again to draw the front forward into the correct position.

Focussing

1. Focussing by distance (which can be effected while the camera is closed) is accomplished by means of the Spiral

Fig. 5 Re-folding the Focussing hood

Focussing mount according to the scale engraved on the lens ring.

2. When the *Miroflex* is used as a Press camera or on a tripod, focussing is done with the aid of the ground

glass screen in the back panel of the camera. Open the screen cover in the usual way and press with the left thumb on the small button underneath the focusing screen, at the same time turning the ring *R* of the focal

Fig. 6 Closing the Miroflex

plane shutter in the direction of the arrow till the blind uncovers the screen. When the object has been satisfactorily focused, the lens is re-capped by pressing the shutter release *N* without affecting the setting of the shutter

speed. The shutter has to be rewound for the exposure. 3. When the *Miroflex* is used as a Reflex Camera the object can be sharply focussed by watching the picture in the focusing hood up to the moment of exposure. The mirror mount cuts off some millimetres of the picture on the groundglass, so that its size differs slightly from that of the plate picture. The actual focus is varied by moving the lever *H* of the spiral lens mount with the left hand, keeping the index finger of the right hand on the release button ready to make the exposure when the object is in the desired position and correctly focussed (Fig. 4).

For convenience when using a tripod, the lens panel can be moved sideways. The knob screw *T* in the lower left corner of the lens panel must be slackened and tightened again after the desired adjustment has been made.

Regulating the Focal-plane Shutter

Pull out the milled ring *R* of the shutter release knob *A* till a noticeable resistance is felt and then turn the pointer *J* to the selected figure on the exposure scale, and let the ring fall back in its normal position. In this manner all instantaneous speeds from 1/3 to 1/2000 second can be obtained, as well as Time and Bulb by placing at "T" and "B" respectively. The shutter must then be wound up by turning the ring *A* in the direction of the arrow (clockwise) till a firm check is reached. The exposure time should generally be regulated before setting the shutter, and, the shutter being set, should be altered only exceptionally, and then only from a short to a longer exposure time. Pull ring *R* outward and turn it to the left (not clockwise) upon the desired speed number. Then let it fall back and set the shutter once more arrowwise as far as it will go.

Exposure is made by pressing with the first finger of the right hand on the release button *N* (see Fig. 4) or by

means of the wire release, screwed upon the thread of button *N*. When using the mirror, the wire release should not be employed.

Inserting the slide

Remove the ground glass frame by pushing upward the catch in the upper right corner of the camera back and insert the slide in its place.

Re-folding the Focussing hood

With the first fingers of both hands press the side panels of the hood inwards as shown in Fig. 5 and the whole hood can be folded down. When the cover is closed it will be locked by the automatic catch.

Closing the Camera

After the focusing hood has been refolded as described and the wire frame finder and peep sight have been replaced, press with the finger of the right hand on the button at the side of the carrying strap loop and with the left hand push the front of the camera right back (Fig. 6). Then push the opening handle upwards and the camera is locked.

When closing the camera it must be held horizontally. If inclined forward for example, the mirror will touch the lens and may be damaged.

The camera must be closed slowly and there must be no pressure with the fingers on the bellows as it would not fold correctly.

For locking the camera, after having pushed the camera front inside as far as possible, the handle *Z* must be pushed upward. Another pressure on the camera front will then lock it.

The camera should not be placed so that the button for setting the shutter *A* is below, as the weight of the camera, especially if it is provided with a very heavy lens, will press against this button and the button will weigh upon the shutter mechanism.

For this reason we recommend earnestly the use of our special leather case, made for this camera, the inside of which is so arranged that it will prevent hurting the button *A* or weighing upon it, so that the shutter mechanism may not be damaged.

When introducing the camera into the case, the carrying strap must be on the top and the lens directed toward the lock of the case. Screw *T* of the lens panel must be tightened.

Changing the lens

The lens of the *Miroflex* can be replaced by others for more special purposes. For interiors or night photography the Zeiss Tessar *f*/4.5 can be replaced by a Tessar *f*/2.7, in spiral focussing mount on a special metal adapter ring. For Telephotography the Zeiss Tele-Tessar *f*/6.3 in spiral focussing mount can be fitted to the lens panel but requires a special focussing adjustment.

When the Tele-Tessar is used, it *must* be dismounted before closing the camera, otherwise the mirror and focusing screen will be damaged.

For changing remove the lens, slacken screw *T* and push the lens panel to the right.

M I R A P H O T

An enlarging apparatus to be used
in connection with any ordinary electric light socket.
With automatic focussing

The Miraphot is the ideal enlarging apparatus because the manipulations

a) of determining the size of the picture
b) of sharp focussing

are done by one single control. It is sufficient to look at the apparatus to be at once convinced by its practical form of the simplicity and ease of its manipulation.

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